

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 101733,232

CRF Edit Date: 8/10/04
Edited by: PG

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited

ENTERED

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ invalid beginning/end-of-file text ; ☐ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



IFWO

RAW SEQUENCE LISTING

DATE: 08/11/2004

PATENT APPLICATION: US/10/733,232

TIME: 13:57:57

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\08042004\J733232.raw

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3 <110> APPLICANT: INSTITUT PASTEUR
4   INSTITUT PASTEUR DE TUNIS
6 <120> TITLE OF INVENTION: GENE ASSOCIATED WITH LEISHMANIA PARASITE VIRULENCE
8 <130> FILE REFERENCE: B4866AI -AD/VMA
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/733,232
C--> 11 <141> CURRENT FILING DATE: 2003-12-12
13 <150> PRIOR APPLICATION NUMBER: FR 0107985
15 <151> PRIOR FILING DATE: 2001-06-18
17 <150> PRIOR APPLICATION NUMBER: PCT/FR02/02086
18 <151> PRIOR FILING DATE: 2002-06-17
20 <160> NUMBER OF SEQ ID NOS: 10
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2094
26 <212> TYPE: DNA
27 <213> ORGANISM: Leishmania major
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (241)..(1674)
32 <223> OTHER INFORMATION: LmPDI coding sequence (orf)
34 <400> SEQUENCE: 1
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37 cctctctgcg ctctctgtgc ctgtgcgggc gcgcaacgtg cctttctctc cgtattgcc 120
39 agctgtgagc tgctgcctac tggcaacgtg tacgccattc ccgtttcttg attctggtgc 180
41 agtgctcagc tctaccctat ttgtattgat accggtttcc ttttcgtttt gcaaagaaaa 240
43 atg cag cgc tca ttc ctt gtt ttt gtt ctg tgc gcc ctt ctc ttc tgc 288
44 Met Gln Arg Ser Phe Leu Val Phe Val Leu Cys Ala Leu Leu Phe Cys
45 1 5 10 15
47 gtc gcg tcc gca gag gtg cag gtg gcc act aag gac aac ttt gac aag 336
48 Val Ala Ser Ala Glu Val Gln Val Ala Thr Lys Asp Asn Phe Asp Lys
49 20 25 30
51 gtc gta atc ggg gat ctc acg ttg gtc aag ttt tat gct ccg tgg tgc 384
52 Val Val Ile Gly Asp Leu Thr Leu Val Lys Phe Tyr Ala Pro Trp Cys
53 35 40 45
55 ggc cac tgc aag aca ctc gcc ccg gag ttt gta aag gcc gct gac atg 432
56 Gly His Cys Lys Thr Leu Ala Pro Glu Phe Val Lys Ala Ala Asp Met
57 50 55 60
59 ctg gcc ggc atc gcg acc ctt gca gag gtc gat tgc acc aaa gaa gag 480
60 Leu Ala Gly Ile Ala Thr Leu Ala Glu Val Asp Cys Thr Lys Glu Glu
61 65 70 75 80
63 agc ctt gct gag aag tac gaa atc aag ggg ttc ccc acg ctg tac atc 528
64 Ser Leu Ala Glu Lys Tyr Glu Ile Lys Gly Phe Pro Thr Leu Tyr Ile
65 85 90 95

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67 ttc cgt aac ggt gag aaa gtg aag atc tac gat ggt ccc cgc act gcc 576
68 Phe Arg Asn Gly Glu Lys Val Lys Ile Tyr Asp Gly Pro Arg Thr Ala
69          100          105          110
71 gcc ggc atc gcg tcg tac atg aag gcg cat gtc ggt cca tcg atg aag 624
72 Ala Gly Ile Ala Ser Tyr Met Lys Ala His Val Gly Pro Ser Met Lys
73          115          120          125
75 gcc atc tca acg gct gaa gag ctg gag gag ctc aag aag gag act ttc 672
76 Ala Ile Ser Thr Ala Glu Leu Glu Glu Leu Lys Lys Glu Thr Phe
77          130          135          140
79 ccg gtg tgc gtg gtg aag aca gcg agc acc gac tcg gag atg gcg tcg 720
80 Pro Val Cys Val Val Lys Thr Ala Ser Thr Asp Ser Glu Met Ala Ser
81 145          150          155          160
83 atg ata acc aag gtg gcg gac tct ctc cgc tcg cag atg aac ttt gtg 768
84 Met Ile Thr Lys Val Ala Asp Ser Leu Arg Ser Gln Met Asn Phe Val
85          165          170          175
87 ctc gtg acg gat gcg gcc atc tct ccg aat gat gcc atg gag tcg gtt 816
88 Leu Val Thr Asp Ala Ala Ile Ser Pro Asn Asp Ala Met Glu Ser Val
89          180          185          190
91 acg gtg tat cgc aag aat gcg gag cgc gag gcg tac acc ggc gct aca 864
92 Thr Val Tyr Arg Lys Asn Ala Glu Arg Glu Ala Tyr Thr Gly Ala Thr
93          195          200          205
95 cca atg acg gca gag tcg gtg aag agc ttt ctc acg agt gct gtg ttg 912
96 Pro Met Thr Ala Glu Ser Val Lys Ser Phe Leu Thr Ser Ala Val Leu
97          210          215          220
99 gac tac ttt ggc gag ctc ggc cag gag agc ttt cag aag tac atg gaa 960
100 Asp Tyr Phe Gly Glu Leu Gly Gln Glu Ser Phe Gln Lys Tyr Met Glu
101 225          230          235          240
103 gcg aac aag gat aaa cct ctt ggg tgg gtg ttc atc gac aag aac acg 1008
104 Ala Asn Lys Asp Lys Pro Leu Gly Trp Val Phe Ile Asp Lys Asn Thr
105          245          250          255
107 gat tct gcg ttg aag ggg tca ctt gtg gcg gtg gcg gag aag tac cgc 1056
108 Asp Ser Ala Leu Lys Gly Ser Leu Val Ala Val Ala Glu Lys Tyr Arg
109          260          265          270
111 tcg cag gtg ttg cta acc tac att gac ggc gat cag tac cgc ccc gtc 1104
112 Ser Gln Val Leu Leu Thr Tyr Ile Asp Gly Asp Gln Tyr Arg Pro Val
113          275          280          285
115 tcg cgc cag ctg ggc att cct gag gat gcg aag ttc ccg gcg ttt gtg 1152
116 Ser Arg Gln Leu Gly Ile Pro Glu Asp Ala Lys Phe Pro Ala Phe Val
117          290          295          300
119 gtc gat ttc gag cgc cgc cat cac gtg atg ggg acg gac acc cca gtc 1200
120 Val Asp Phe Glu Arg Arg His His Val Met Gly Thr Asp Thr Pro Val
121 305          310          315          320
123 acc tcc gag tct gtc gct gcg ttt gtg gag aag tat gtc aag ggc gag 1248
124 Thr Ser Glu Ser Val Ala Ala Phe Val Glu Lys Tyr Val Lys Gly Glu
125          325          330          335
127 acg aag cag acc gtg atg tcc gac gcg att ccc gct aag gag acg gtg 1296
128 Thr Lys Gln Thr Val Met Ser Asp Ala Ile Pro Ala Lys Glu Thr Val
129          340          345          350
131 aac ggc ctc aca acg gtg gtg ggt cag act ttt gcg aag tac acg gac 1344

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132 Asn Gly Leu Thr Thr Val Val Gly Gln Thr Phe Ala Lys Tyr Thr Asp
133          355          360          365
135 ggc aca caa aac gtg atg ctg ctc ttc tac gcg ccg tgg tgc gga cac 1392
136 Gly Thr Gln Asn Val Met Leu Leu Phe Tyr Ala Pro Trp Cys Gly His
137          370          375          380
139 tgc aag aag ctg cac ccc gtc tac gat aaa gta gcc aag agc ttc gag 1440
140 Cys Lys Lys Leu His Pro Val Tyr Asp Lys Val Ala Lys Ser Phe Glu
141 385          390          395          400
143 tct gag aat gtg atc att gcg aag atg gat gcc acg acg aac gac ttt 1488
144 Ser Glu Asn Val Ile Ile Ala Lys Met Asp Ala Thr Thr Asn Asp Phe
145          405          410          415
147 gac cgc gag aag ttt gag gtg tct gga ttt cca acg att tac ttc atc 1536
148 Asp Arg Glu Lys Phe Glu Val Ser Gly Phe Pro Thr Ile Tyr Phe Ile
149          420          425          430
151 cca gcc ggc aag ccg cca atc gtg tac gag ggt ggc cgc acc gca gac 1584
152 Pro Ala Gly Lys Pro Pro Ile Val Tyr Glu Gly Gly Arg Thr Ala Asp
153          435          440          445
155 gaa atc cag gtg ttt gtg aag tct cac ctg acc gcc tcc gcc gct cca 1632
156 Glu Ile Gln Val Phe Val Lys Ser His Leu Thr Ala Ser Ala Ala Pro
157          450          455          460
159 tct ggc ggc cct tcc ggc aac agc gaa gag gaa gat ttg tag 1674
160 Ser Gly Gly Pro Ser Gly Asn Ser Glu Glu Asp Leu
161 465          470          475
163 gactgcaagg gatgtggcgt ttataggctg ccctgccttc ccttgctgtt tctatgacgg 1734
165 attaggcttt tttttgttat atgtggggtg gtcaagagag tgccagggt ccttctttat 1794
167 atccttgccg tttcttttat tttgcttcct tgtgttgacg tctatgcatg cgtgctgtcg 1854
169 acgactcttt gtcaacctgc gtcctatcta gtagcatcga tgtgaaaaga agagtagagg 1914
171 gaggtaacga tgcgtgcgct ggctgccgtt ttcatgggag caatttcgag aaggaaaatc 1974
173 ggaaaatgga caggatagcg aaattagcgc aacgacaagg tcgtgcgtct ttctctatcg 2034
175 gtcattaaat ttctgggctt tgtaacaatg aaagaagtca cacaaaaaaa aaaaaaaaaa 2094
178 <210> SEQ ID NO: 2
179 <211> LENGTH: 477
180 <212> TYPE: PRT
181 <213> ORGANISM: Leishmania major
183 <400> SEQUENCE: 2
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185 1 5 10 15
187 Val Ala Ser Ala Glu Val Gln Val Ala Thr Lys Asp Asn Phe Asp Lys
188 20 25 30
190 Val Val Ile Gly Asp Leu Thr Leu Val Lys Phe Tyr Ala Pro Trp Cys
192 35 40 45
194 Gly His Cys Lys Thr Leu Ala Pro Glu Phe Val Lys Ala Ala Asp Met
195 50 55 60
197 Leu Ala Gly Ile Ala Thr Leu Ala Glu Val Asp Cys Thr Lys Glu Glu
198 65 70 75 80
200 Ser Leu Ala Glu Lys Tyr Glu Ile Lys Gly Phe Pro Thr Leu Tyr Ile
201 85 90 95
203 Phe Arg Asn Gly Glu Lys Val Lys Ile Tyr Asp Gly Pro Arg Thr Ala
204 100 105 110

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RAW SEQUENCE LISTING

DATE: 08/11/2004

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TIME: 13:57:57

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\08042004\J733232.raw

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206 Ala Gly Ile Ala Ser Tyr Met Lys Ala His Val Gly Pro Ser Met Lys
207      115      120      125
209 Ala Ile Ser Thr Ala Glu Glu Leu Glu Glu Leu Lys Lys Glu Thr Phe
210      130      135      140
212 Pro Val Cys Val Val Lys Thr Ala Ser Thr Asp Ser Glu Met Ala Ser
213 145      150      155      160
215 Met Ile Thr Lys Val Ala Asp Ser Leu Arg Ser Gln Met Asn Phe Val
216      165      170      175
218 Leu Val Thr Asp Ala Ala Ile Ser Pro Asn Asp Ala Met Glu Ser Val
219      180      185      190
221 Thr Val Tyr Arg Lys Asn Ala Glu Arg Glu Ala Tyr Thr Gly Ala Thr
222      195      200      205
224 Pro Met Thr Ala Glu Ser Val Lys Ser Phe Leu Thr Ser Ala Val Leu
225      210      215      220
227 Asp Tyr Phe Gly Glu Leu Gly Gln Glu Ser Phe Gln Lys Tyr Met Glu
228 225      230      235      240
230 Ala Asn Lys Asp Lys Pro Leu Gly Trp Val Phe Ile Asp Lys Asn Thr
231      245      250      255
233 Asp Ser Ala Leu Lys Gly Ser Leu Val Ala Val Ala Glu Lys Tyr Arg
234      260      265      270
236 Ser Gln Val Leu Leu Thr Tyr Ile Asp Gly Asp Gln Tyr Arg Pro Val
237      275      280      285
239 Ser Arg Gln Leu Gly Ile Pro Glu Asp Ala Lys Phe Pro Ala Phe Val
240      290      295      300
242 Val Asp Phe Glu Arg Arg His His Val Met Gly Thr Asp Thr Pro Val
243 305      310      315      320
245 Thr Ser Glu Ser Val Ala Ala Phe Val Glu Lys Tyr Val Lys Gly Glu
246      325      330      335
248 Thr Lys Gln Thr Val Met Ser Asp Ala Ile Pro Ala Lys Glu Thr Val
249      340      345      350
251 Asn Gly Leu Thr Thr Val Val Gly Gln Thr Phe Ala Lys Tyr Thr Asp
252      355      360      365
254 Gly Thr Gln Asn Val Met Leu Leu Phe Tyr Ala Pro Trp Cys Gly His
255      370      375      380
257 Cys Lys Lys Leu His Pro Val Tyr Asp Lys Val Ala Lys Ser Phe Glu
258 385      390      395      400
260 Ser Glu Asn Val Ile Ile Ala Lys Met Asp Ala Thr Thr Asn Asp Phe
261      405      410      415
263 Asp Arg Glu Lys Phe Glu Val Ser Gly Phe Pro Thr Ile Tyr Phe Ile
264      420      425      430
266 Pro Ala Gly Lys Pro Pro Ile Val Tyr Glu Gly Gly Arg Thr Ala Asp
267      435      440      445
269 Glu Ile Gln Val Phe Val Lys Ser His Leu Thr Ala Ser Ala Ala Pro
270      450      455      460
272 Ser Gly Gly Pro Ser Gly Asn Ser Glu Glu Glu Asp Leu
273 465      470      475
277 <210> SEQ ID NO: 3
278 <211> LENGTH: 467
279 <212> TYPE: PRT

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RAW SEQUENCE LISTING

DATE: 08/11/2004

PATENT APPLICATION: US/10/733,232

TIME: 13:57:57

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\08042004\J733232.raw

280 <213> ORGANISM: Artificial sequence

282 <220> FEATURE:

283 <223> OTHER INFORMATION: Description of artificial sequence: recombinant protein

285 <400> SEQUENCE: 3

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289 Ile Gly Asp Leu Thr Leu Val Lys Phe Tyr Ala Pro Trp Cys Gly His
290           20           25           30
292 Cys Lys Thr Leu Ala Pro Glu Phe Val Lys Ala Ala Asp Met Leu Ala
293           35           40           45
295 Gly Ile Ala Thr Leu Ala Glu Val Asp Cys Thr Lys Glu Glu Ser Leu
296           50           55           60
298 Ala Glu Lys Tyr Glu Ile Lys Gly Phe Pro Thr Leu Tyr Ile Phe Arg
299   65           70           75           80
301 Asn Gly Glu Lys Val Lys Ile Tyr Asp Gly Pro Arg Thr Ala Ala Gly
302           85           90           95
304 Ile Ala Ser Tyr Met Lys Ala His Val Gly Pro Ser Met Lys Ala Ile
305           100          105          110
307 Ser Thr Ala Glu Glu Leu Glu Glu Leu Lys Lys Glu Thr Phe Pro Val
308           115          120          125
310 Cys Val Val Lys Thr Ala Ser Thr Asp Ser Glu Met Ala Ser Met Ile
311           130          135          140
313 Thr Lys Val Ala Asp Ser Leu Arg Ser Gln Met Asn Phe Val Leu Val
314 145          150          155          160
316 Thr Asp Ala Ala Ile Ser Pro Asn Asp Ala Met Glu Ser Val Thr Val
317           165          170          175
319 Tyr Arg Lys Asn Ala Glu Arg Glu Ala Tyr Thr Gly Ala Thr Pro Met
320           180          185          190
322 Thr Ala Glu Ser Val Lys Ser Phe Leu Thr Ser Ala Val Leu Asp Tyr
323           195          200          205
325 Phe Gly Glu Leu Gly Gln Glu Ser Phe Gln Lys Tyr Met Glu Ala Asn
326           210          215          220
328 Lys Asp Lys Pro Leu Gly Trp Val Phe Ile Asp Lys Asn Thr Asp Ser
329 225          230          235          240
331 Ala Leu Lys Gly Ser Leu Val Ala Val Ala Glu Lys Tyr Arg Ser Gln
332           245          250          255
334 Val Leu Leu Thr Tyr Ile Asp Gly Asp Gln Tyr Arg Pro Val Ser Arg
335           260          265          270
337 Gln Leu Gly Ile Pro Glu Asp Ala Lys Phe Pro Ala Phe Val Val Asp
338           275          280          285
340 Phe Glu Arg Arg His His Val Met Gly Thr Asp Thr Pro Val Thr Ser
341           290          295          300
343 Glu Ser Val Ala Ala Phe Val Glu Lys Tyr Val Lys Gly Glu Thr Lys
344 305          310          315          320
346 Gln Thr Val Met Ser Asp Ala Ile Pro Ala Lys Glu Thr Val Asn Gly
347           325          330          335
349 Leu Thr Thr Val Val Gly Gln Thr Phe Ala Lys Tyr Thr Asp Gly Thr
350           340          345          350
352 Gln Asn Val Met Leu Leu Phe Tyr Ala Pro Trp Cys Gly His Cys Lys

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/733,232

DATE: 08/11/2004

TIME: 13:57:58

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\08042004\J733232.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date



IFWO

RAW SEQUENCE LISTING

DATE: 08/10/2004

PATENT APPLICATION: US/10/733,232

TIME: 11:41:04

Input Set : A:\02356.0087 Sequence Listing.txt

Output Set: N:\CRF4\08102004\J733232.raw

3 <110> APPLICANT: INSTITUT PASTEUR
 4 INSTITUT PASTEUR DE TUNIS
 6 <120> TITLE OF INVENTION: GENE ASSOCIATED WITH LEISHMANIA PARASITE VIRULENCE
 8 <130> FILE REFERENCE: B4866AI -AD/VMA
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/733,232
 C--> 11 <141> CURRENT FILING DATE: 2003-12-12
 13 <150> PRIOR APPLICATION NUMBER: FR 0107985
 15 <151> PRIOR FILING DATE: 2001-06-18
 17 <150> PRIOR APPLICATION NUMBER: PCT/FR02/02086
 18 <151> PRIOR FILING DATE: 2002-06-17
 20 <160> NUMBER OF SEQ ID NOS: 10
 22 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

1004 <210> SEQ ID NO: 10
 1005 <211> LENGTH: 508
 1006 <212> TYPE: PRT
 1007 <213> ORGANISM: Homo sapiens
 1009 <400> SEQUENCE: 10
 1010 Met Leu Arg Arg Ala Leu Leu Cys Leu Ala Val Ala Ala Leu Val Arg
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 1013 Ala Asp Ala Pro Glu Glu Glu Asp His Val Leu Val Leu Arg Lys Ser
 1014 20 25 30
 1016 Asn Phe Ala Glu Ala Leu Ala Ala His Lys Tyr Leu Leu Val Glu Phe
 1017 35 40 45
 1019 Tyr Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala Pro Glu Tyr Ala
 1020 50 55 60
 1022 Lys Ala Ala Gly Lys Leu Lys Ala Glu Gly Ser Glu Ile Arg Leu Ala
 1023 65 70 75 80
 1025 Lys Val Asp Ala Thr Glu Glu Ser Asp Leu Ala Gln Gln Tyr Gly Val
 1026 85 90 95
 1028 Arg Gly Tyr Pro Thr Ile Lys Phe Phe Arg Asn Gly Asp Thr Ala Ser
 1029 100 105 110
 1031 Pro Lys Glu Tyr Thr Ala Gly Arg Glu Ala Asp Asp Ile Val Asn Trp
 1032 115 120 125
 1034 Leu Lys Lys Arg Thr Gly Pro Ala Ala Thr Thr Leu Pro Asp Gly Ala
 1035 130 135 140
 1037 Ala Ala Glu Ser Leu Val Glu Ser Ser Glu Val Ala Val Ile Gly Phe
 1038 145 150 155 160
 1040 Phe Lys Asp Val Glu Ser Asp Ser Ala Lys Gln Phe Leu Gln Ala Ala
 1041 165 170 175

RAW SEQUENCE LISTING

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TIME: 11:41:04

Input Set : A:\02356.0087 Sequence Listing.txt

Output Set: N:\CRF4\08102004\J733232.raw

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1043 Glu Ala Ile Asp Asp Ile Pro Phe Gly Ile Thr Ser Asn Ser Asp Val
1044      180      185      190
1046 Phe Ser Lys Tyr Gln Leu Asp Lys Asp Gly Val Val Leu Phe Lys Lys
1047      195      200      205
1049 Phe Asp Glu Gly Arg Asn Asn Phe Glu Gly Glu Val Thr Lys Glu Asn
1050      210      215      220
1052 Leu Leu Asp Phe Ile Lys His Asn Gln Leu Pro Leu Val Ile Glu Phe
1053 225      230      235      240
1055 Thr Glu Gln Thr Ala Pro Lys Ile Phe Gly Gly Glu Ile Lys Thr His
1056      245      250      255
1058 Ile Leu Leu Phe Leu Pro Lys Ser Val Ser Asp Tyr Asp Gly Lys Leu
1059      260      265      270
1061 Ser Asn Phe Lys Thr Ala Ala Glu Ser Phe Lys Gly Lys Ile Leu Phe
1062      275      280      285
1064 Ile Phe Ile Asp Ser Asp His Thr Asp Asn Gln Arg Ile Leu Glu Phe
1065      290      295      300
1067 Phe Gly Leu Lys Lys Glu Glu Cys Pro Ala Val Arg Leu Ile Thr Leu
1068 305      310      315      320
1070 Glu Glu Glu Met Thr Lys Tyr Lys Pro Glu Ser Glu Glu Leu Thr Ala
1071      325      330      335
1073 Glu Arg Ile Thr Glu Phe Cys His Arg Phe Leu Glu Gly Lys Ile Lys
1074      340      345      350
1076 Pro His Leu Met Ser Gln Glu Leu Pro Glu Asp Trp Asp Lys Gln Pro
1077      355      360      365
1079 Val Lys Val Leu Val Gly Lys Asn Phe Glu Asp Val Ala Phe Asp Glu
1080      370      375      380
1082 Lys Lys Asn Val Phe Val Glu Phe Tyr Ala Pro Trp Cys Gly His Cys
1083 385      390      395      400
1085 Lys Gln Leu Ala Pro Ile Trp Asp Lys Leu Gly Glu Thr Tyr Lys Asp
1086      405      410      415
1088 His Glu Asn Ile Val Ile Ala Lys Met Asp Ser Thr Ala Asn Glu Val
1089      420      425      430
1091 Glu Ala Val Lys Val His Ser Phe Pro Thr Leu Lys Phe Phe Pro Ala
1092      435      440      445
1094 Ser Ala Asp Arg Thr Val Ile Asp Tyr Asn Gly Glu Arg Thr Leu Asp
1095      450      455      460
1097 Gly Phe Lys Lys Phe Leu Glu Ser Gly Gly Gln Asp Gly Ala Gly Asp
1098 465      470      475      480
1100 Asp Asp Asp Leu Glu Asp Leu Glu Glu Ala Glu Glu Pro Asp Met Glu
1101      485      490      495
1103 Glu Asp Asp Asp Gln Lys Ala Val Lys Asp Glu Leu
1104      500      505

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E--> 1111 1 delete

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/733,232

DATE: 08/10/2004

TIME: 11:41:05

Input Set : A:\02356.0087 Sequence Listing.txt

Output Set: N:\CRF4\08102004\J733232.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1111 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10